

FIG. 1

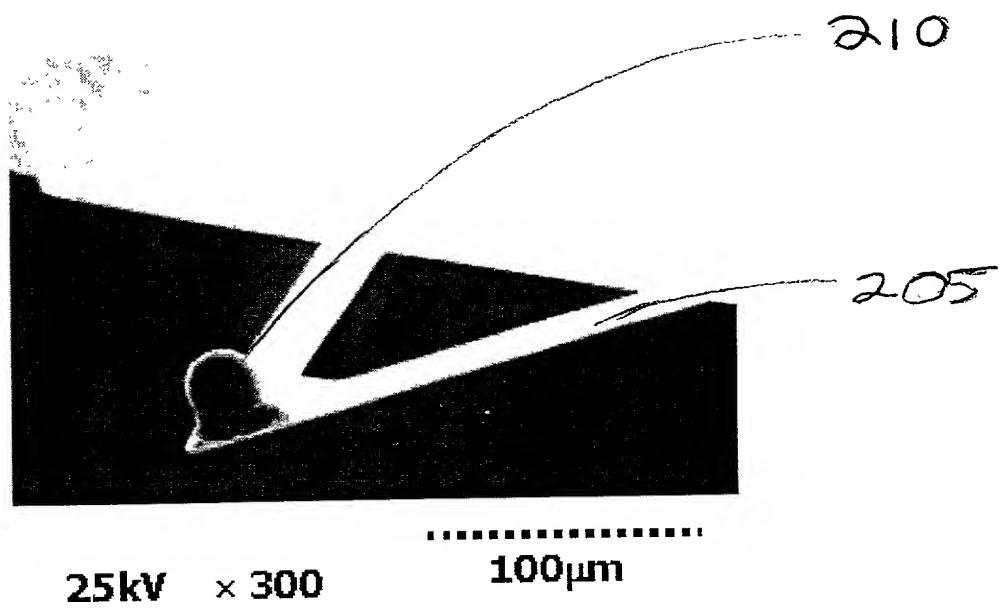
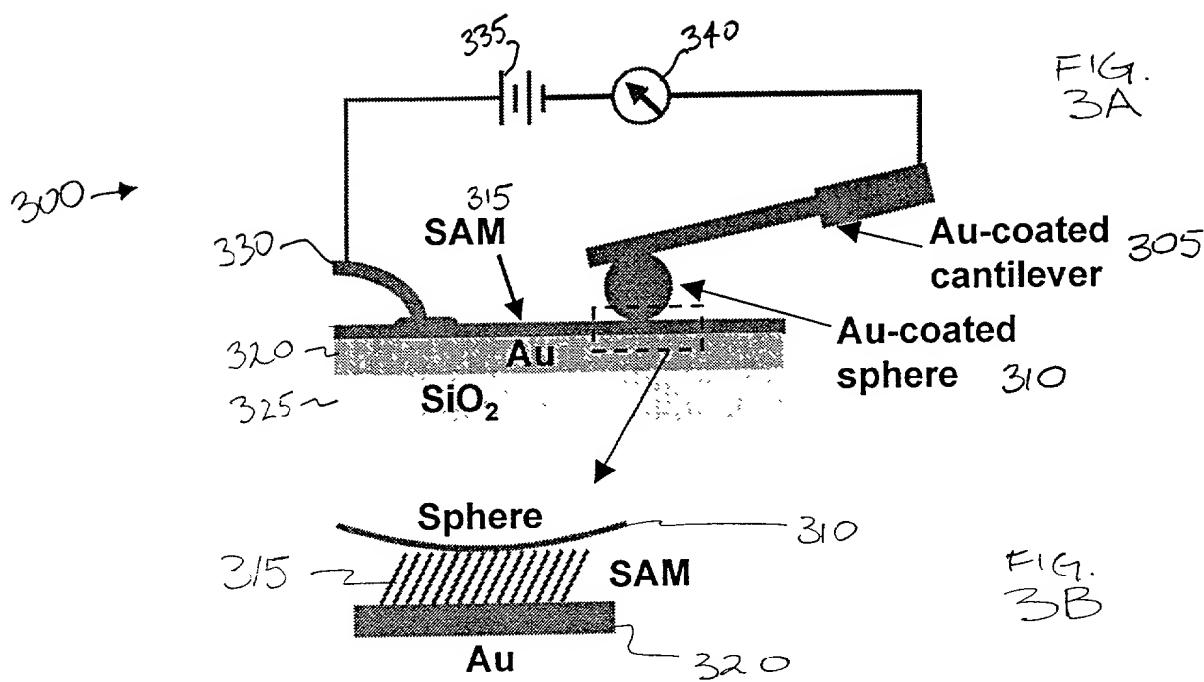


FIG. 2



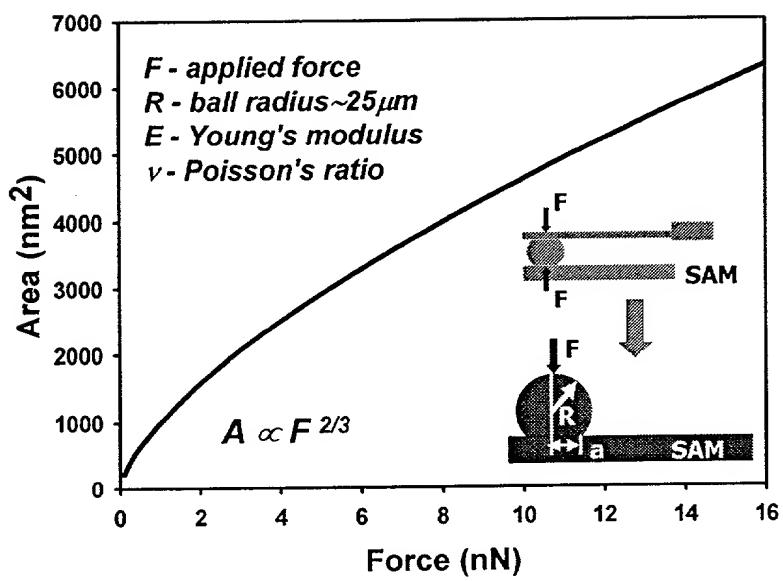


FIG. 4

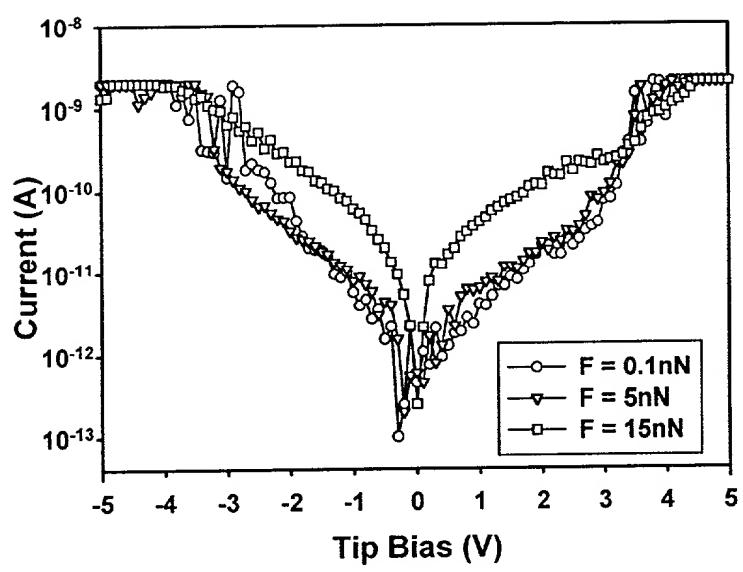


FIG. 5

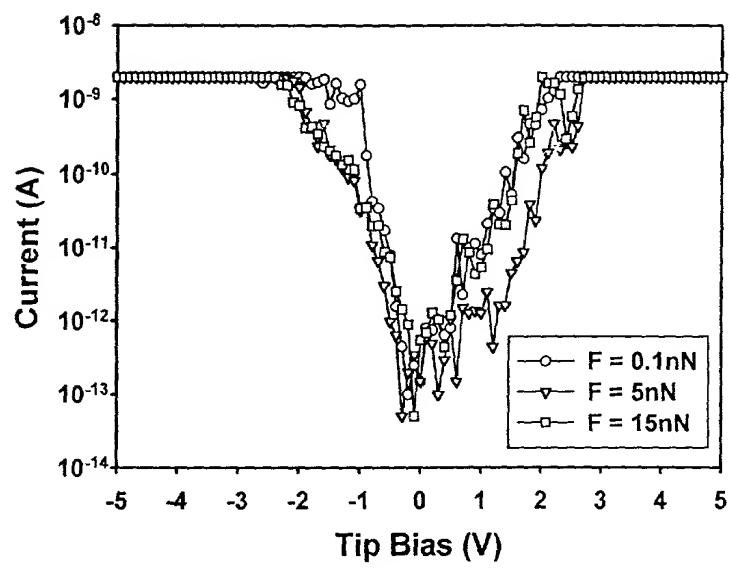
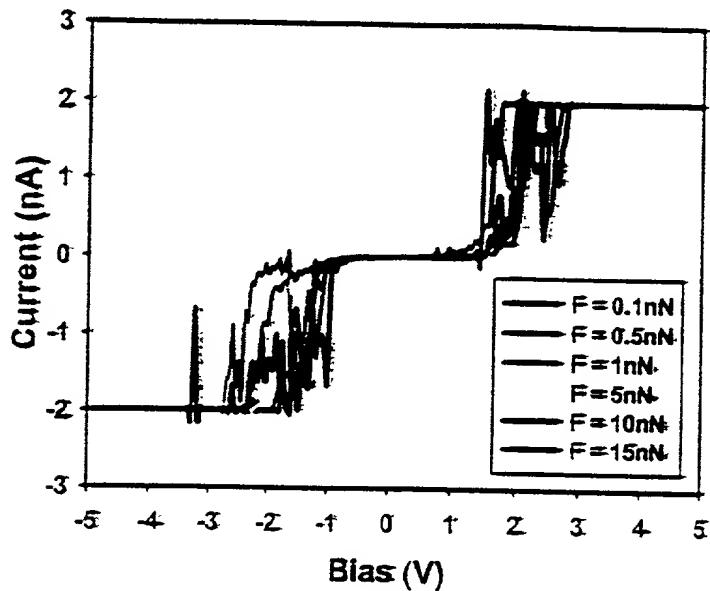


FIG. 6



I-V characteristics for a 1-Octadecanethiol monolayer self-assembled on a gold surface.  
Characteristics vary relatively little for a wide range of tip forces.

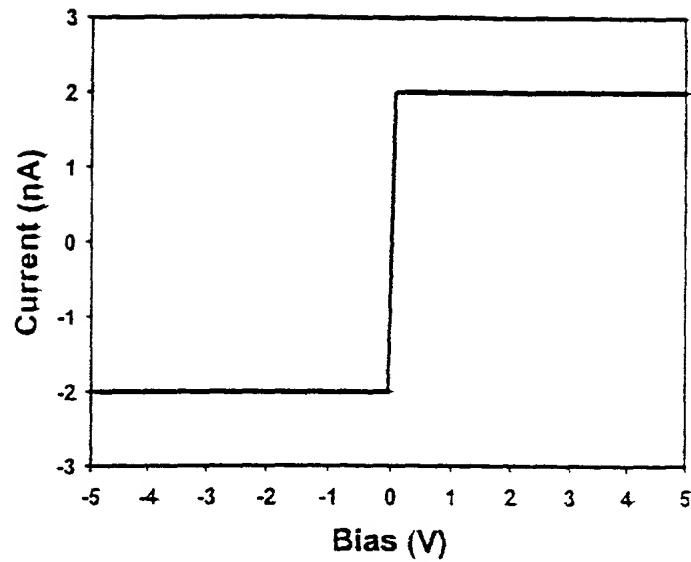


FIG. B

I-V characteristic using a 25 micron diameter microsphere tip to measure a gold layer at a tip force of 0.1 nN (current limited to 2 nA).